

SUMMARY OF HYDROLOGIC CONDITIONS IN BIG CYPRESS BASIN

March, 2009

SUMMARY

Severely dry hydrologic conditions continue to plague Southwest Florida with regional danger of forest fire and dwindling water supplies. Surface and groundwater levels are experiencing severe downward trend to lower than normal conditions. The water control structures were operated on normal dry season schedules. Backpumping operations have now been suspended due to low tailwater levels. Phase II water restrictions continued across southwest Florida.

RAINFALL

In spite of deep southward penetration of a series of cold fronts throughout the month, there was hardly any rainfall activity in southwest Florida in March. Parts of Southeast Florida were deluged by some of those frontal clouds. The weighted average rainfall of 13 reporting stations across the Basin was 0.31 inches, or only 13 percent of normal rainfall for March. The dry season rainfall for the region is approximately 22 percent of normal. A summary of rainfall recorded at various stations across the Basin is illustrated in Table 1 and Figure 1.

STREAMFLOWS AND GROUNDWATER LEVELS

Surface and groundwater levels in the canals, streams and regional aquifers continued their decline with no signs of recharge by rainfall, and were considerably below their normal March levels. All of the water control structures were on dry season operating schedules. A summary of the surface water stage hydrographs at selected locations is illustrated in Figures 2 and 3. Three of the four backpumping stations were operated.

The groundwater levels in the surficial water table aquifer recorded an average decline of 0.52 feet and the Lower Tamiami aquifer wells recorded an average decline of 1.4 feet from the previous month, and stayed at below normal

March levels regionally. Hydrographs of selected key indicator wells are illustrated in Figure 4. Phase II water restriction continued across southwest Florida. The District staff has aggressively reminded residents to cut back on water use as far as practicable.

WATER USE

The average daily raw pumpages by the major public water utilities in the Basin during March 2009 are as follows:

Average Daily Raw Water Pumped (MGD)

Utility	March 2009	March 2008
1. City of Naples Water Utility	17.84	15.00
2. Collier County Utilities	N/A	30.94
3. Marco Island Water Utility*	N/A	6.28
4. Immokalee Water & Sewer District	N/A	2.35

* Surface water only.



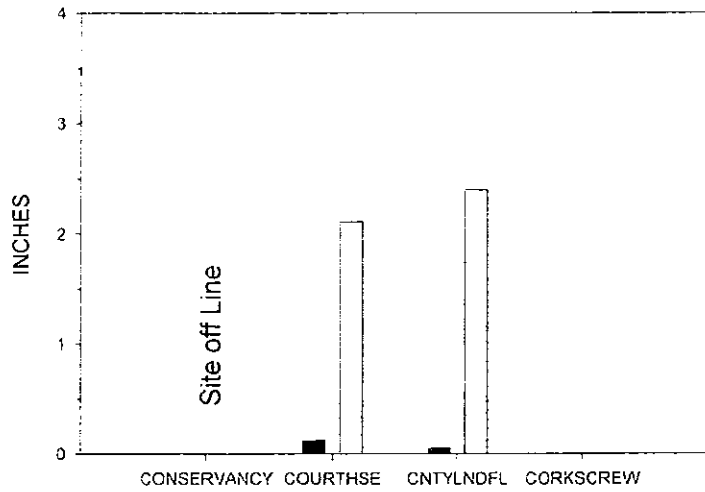
TABLE 1
RAINFALL REPORT - MARCH 2009
DISTRICT/BASIN RAINFALL STATIONS
(ALL NUMBERS ARE IN INCHES)

STATION INDEX NO.	STATION NAME	CURRENT MONTH 2009	LONG TERM AVERAGE FOR THIS MONTH	CALENDAR YEAR 2009 CUMULATIVE TOTAL	AVERAGE CALENDAR YEAR TO DATE	LONG TERM YEARLY AVERAGE
R-1	CONSERVANCY	Site off line	Gauge relocation			52.55
R-2	COLLIER COUNTY COURTHOUSE	0.12	2.11	2.24	5.85	51.91
R-3	COLLIER COUNTY LANDFILL	0.05	2.40	0.25	6.83	62.55
R-4	CORKSCREW SWAMP SANCTUARY					58.30
R-5	FAKAHATCHEE STRAND STATE PRESERVE					62.05
R-6	GOLDEN GATE FIRE STATION #2	0.22	2.47	2.36	6.15	57.81
R-7	IMMOKALEE LANDFILL	0.95	2.88	2.14	7.04	51.95
R-8	IFAS (INST. OF FOOD/AGRI.SCIE.) N. IMMOKALEE	0.14	2.96	0.42	7.07	50.48
R-9	MARCO ISLAND R.O. PLANT	0.11	2.05	1.70	6.64	53.98
R-10	FAKAHATCHEE NORTH END	0.85	2.61	1.83	7.23	60.33
R-11	COCOHATCHEE STRUCTURE #1	0.33	2.39	0.70	6.00	47.81
R-12	AVE MARIA (Silver Strand)	0.13	2.73	0.61	6.90	55.13
R-13	BCB FIELD STATION	0.41	2.07	0.93	6.32	55.27
R-14	COLLIER/SEMINOLE STATE PARK	0.61	2.29	1.64	5.54	54.72
R-15	BONITA SPRINGS WATER PLANT	0.22	2.68	0.76	6.96	53.86

MONTHLY AND YEAR-TO-DATE RAINFALL AT SELECTED LOCATIONS

March 2009

MONTHLY TOTAL RAINFALL



RAINFALL TO DATE, YEAR 2009

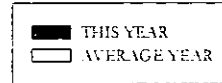
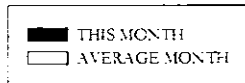
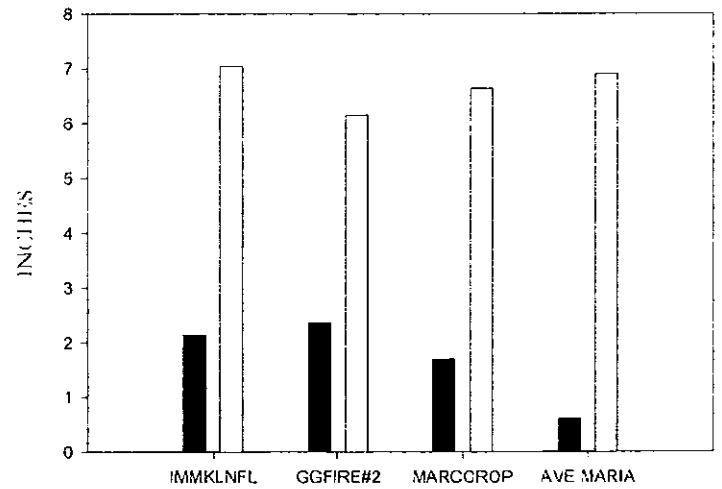
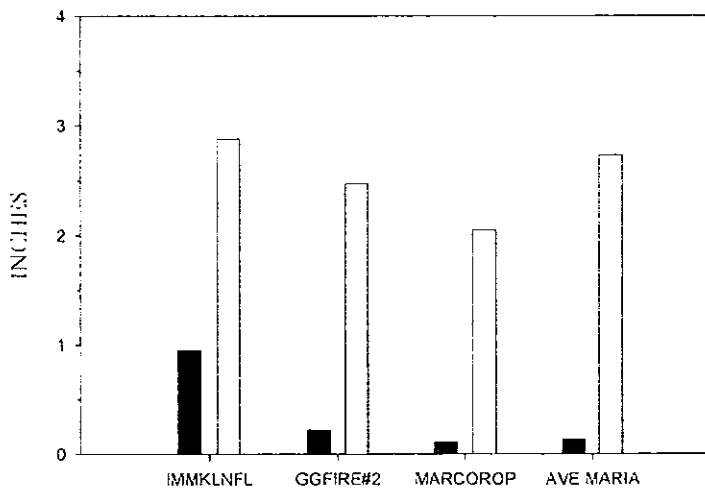
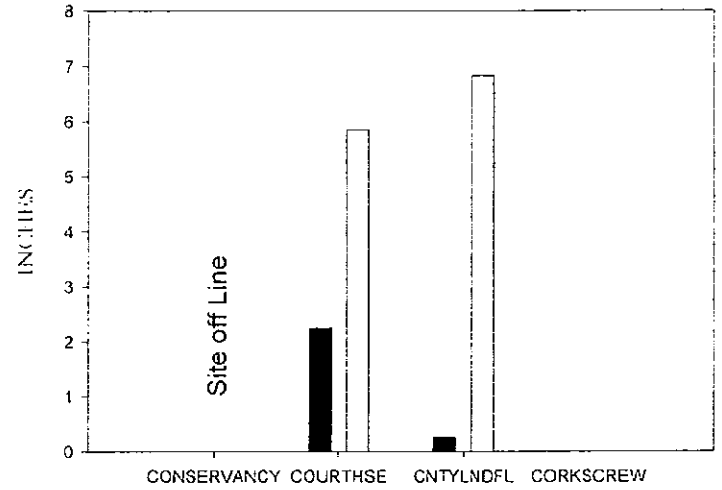
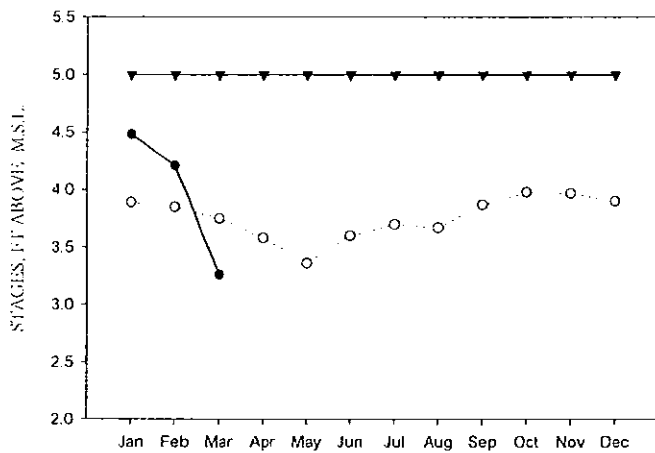


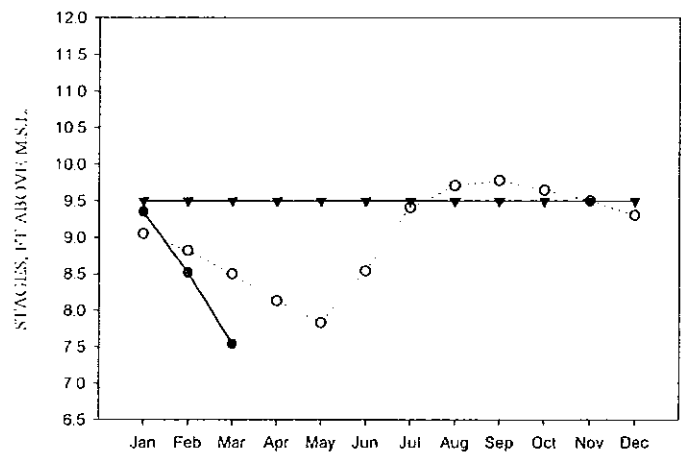
FIGURE 1

MONTHLY MEAN CANAL STAGES AT SELECTED LOCATIONS 2008

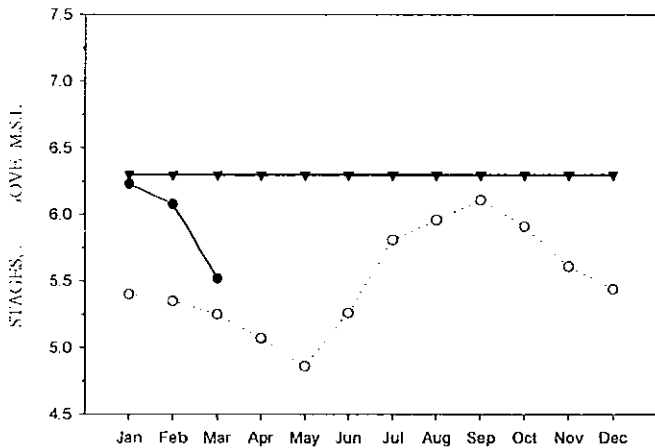
GOLDEN GATE CANAL AT WEIR 1



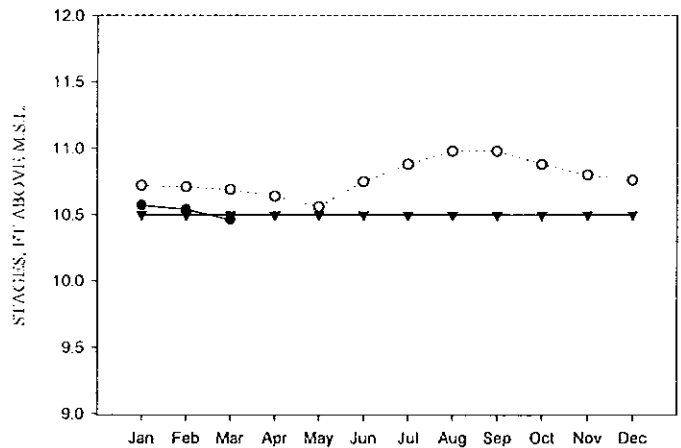
GOLDEN GATE CANAL AT WEIR 4



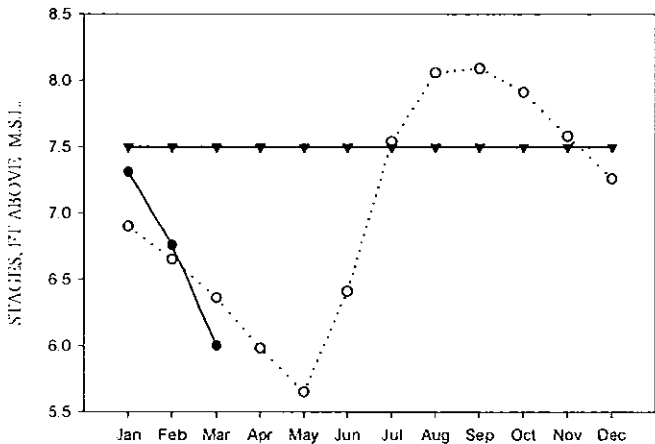
GOLDEN GATE CANAL AT WEIR 2



GOLDEN GATE CANAL AT WEIR 5



GOLDEN GATE CANAL AT WEIR 3



AIRPORT ROAD CANAL AT CR 31 SOUTH

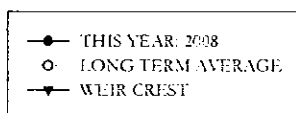
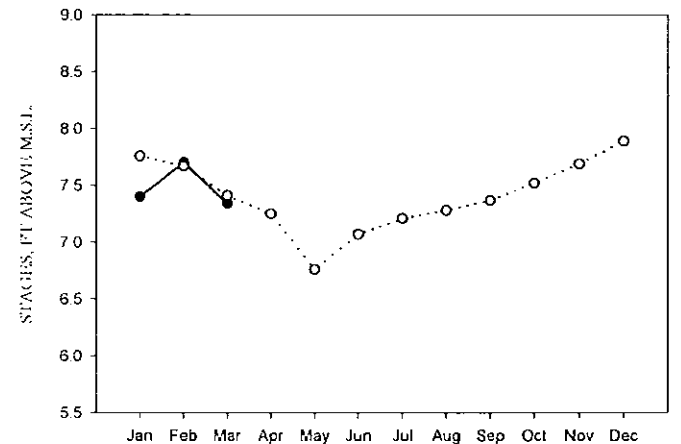


FIGURE 2

MONTHLY MEAN CANAL STAGES AT SELECTED LOCATIONS 2008

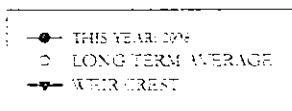
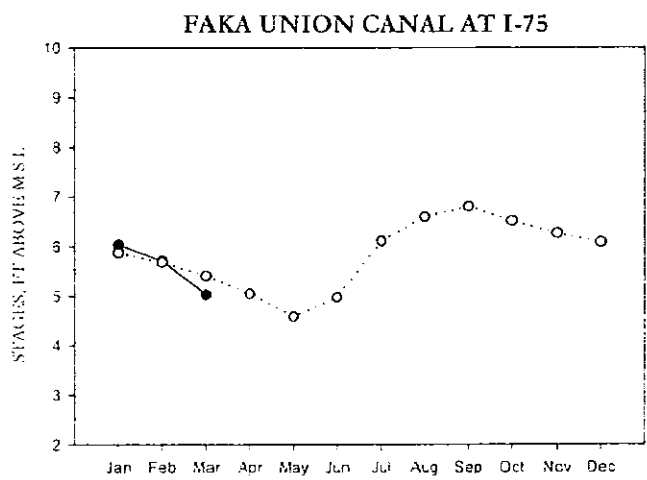
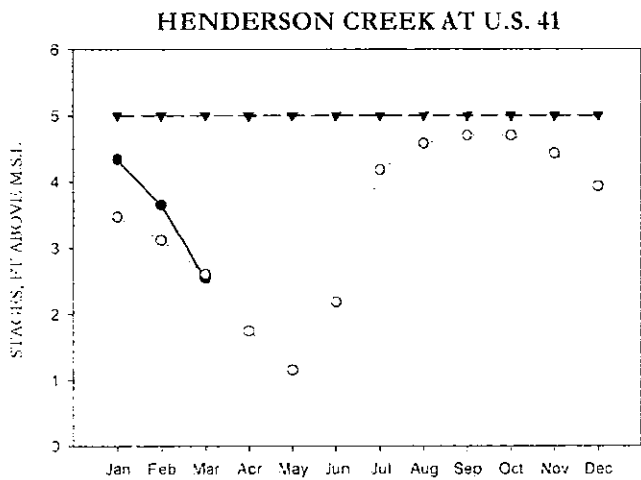
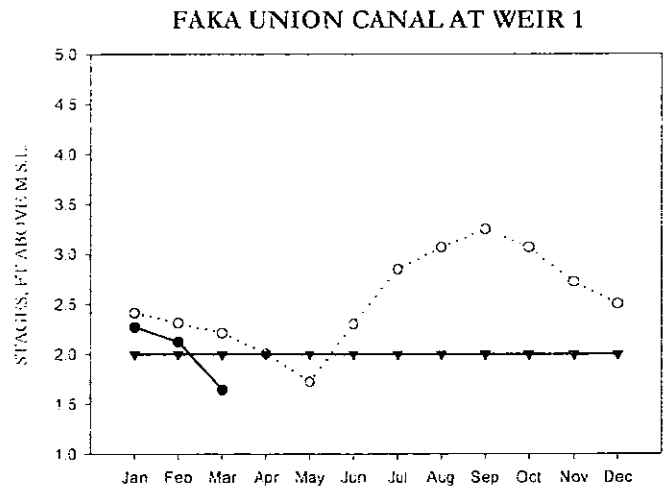
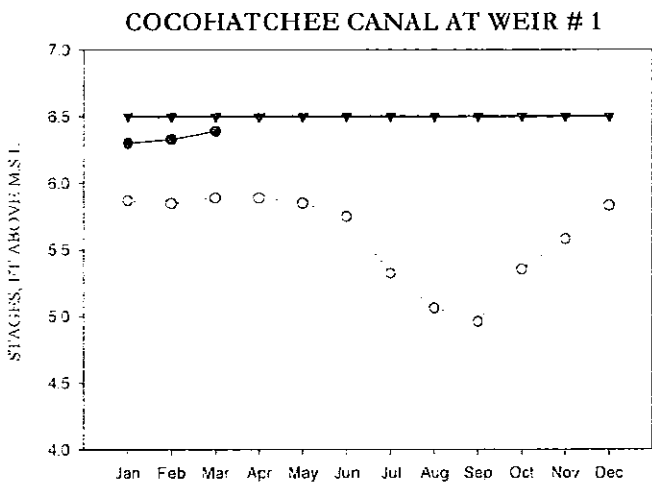
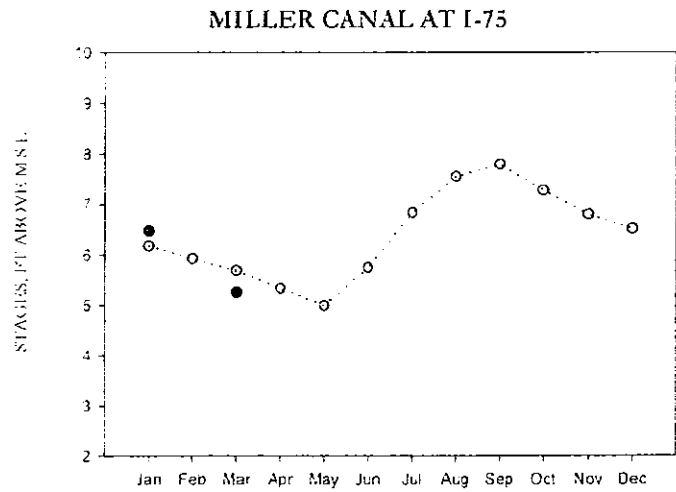
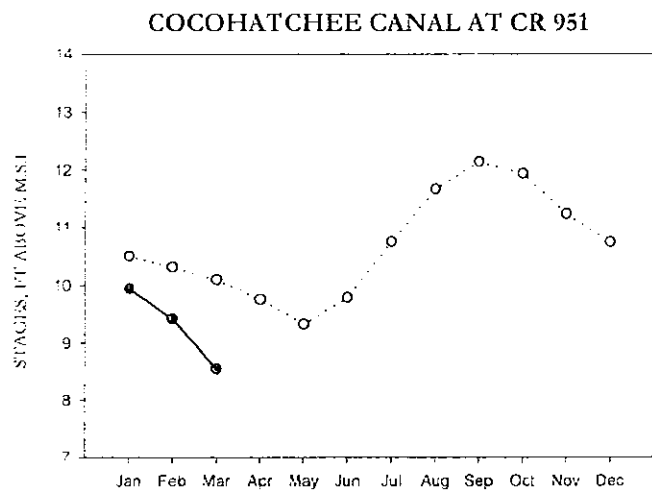
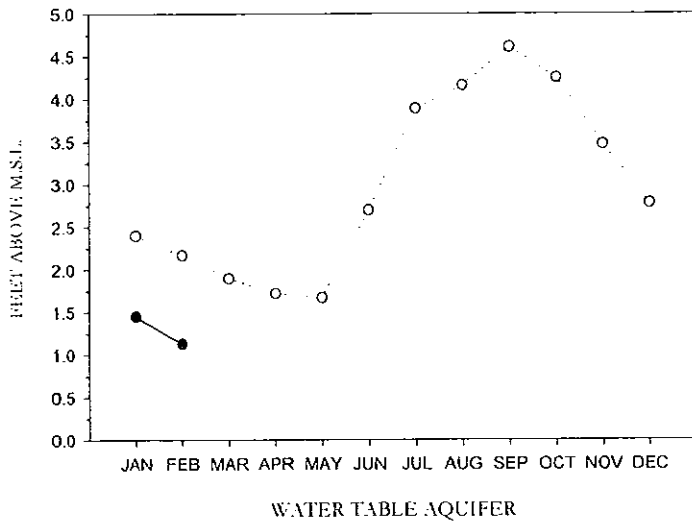


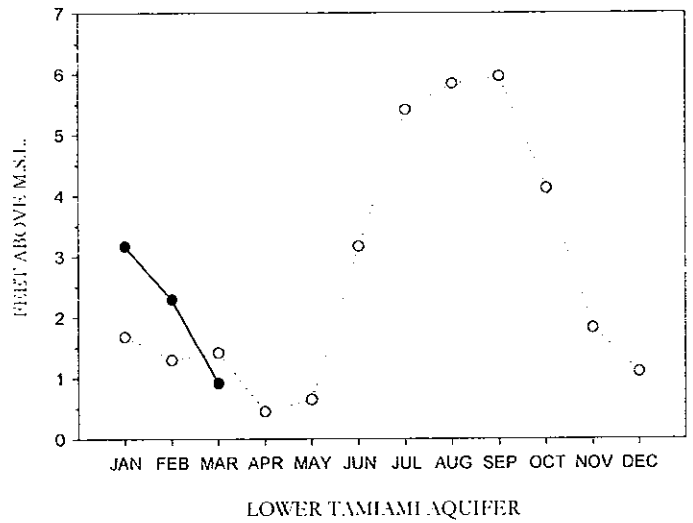
FIGURE 3

GROUNDWATER LEVELS AT SELECTED LOCATIONS 2009

GROUND WATER LEVELS AT WELL C-1063
NEAR SIX Ls FARM ON US 41 EAST



GROUND WATER LEVELS AT WELL C-1004r
PALM RIVER BOULEVARD, NORTH NAPLES



GROUND WATER LEVELS AT C-492
CORKSCREW SWAMP SANCTUARY

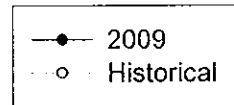
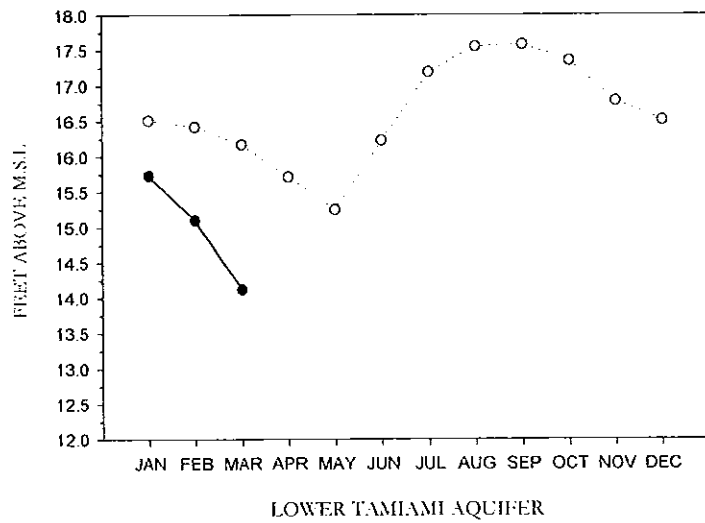


FIGURE 4